PATENT COOPERATION TREATY PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

... (PCT Article 36 and Rule 70)

Applicant's or agent's file reference SHW:LM:FP17123	FOR FURTHER ACTION	See Notification o Examination Repo	of Transmittal of International Preliminary of (Form PCT/IPEA/416).
International Application No.	International Filing De (day/month/year)		Priority Date (day/month/year)
PCT/AU02/01669	10 December 2002		18 December 2001
International Patent Classification (IPC) of	or national classification ar	nd IPC	
Int. CL ⁷ G0IV 3/165, 3/38			
Applicant BHP BILLITON INNOVATIO	N PTY LTD et al		
	-		onal Preliminary Examining Authority and
2. This REPORT consists of a total of	sheets, including this co	over sheet.	
This report is also accompanied	by ANNEXES, i.e., sheets	s of the description, o	claims and/or drawings which have been made before this Authority (see Rule
These annexes consist of a total	of sheet(s).		
3. This report contains indications relating	g to the following items:		
I X Basis of the report			
II Priority			
III Non-establishment of op	inion with regard to novel	V inventive step and	linda and a sure
Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Lack of unity of invention			
Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;			
VI Certain documents cited			
VII Certain defects in the international application			
VIII Certain observations on the international application			
ate of submission of the demand			
9 June 2003		Date of completion of the report	
ame and mailing address of the IPEA/AU		July 2003	
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/AU02/01669

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

. Statement		
Novelty (N)	Claims 1-36	YES
_	Claims	NO
Inventive step (IS)	Claims 1-36	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-36	YES
1	Claims	NO

2. Citations and explanations (Rule 70.7)

Citations

D1: US 3875497 D2: US 5218300

NOVELTY (N) AND INVENTIVE STEP (IS)

The claims are directed to methods of directly correcting marine magnetic gradient data for ship bias, by determining and subtracting the trend of the gradient of the ship bias. D1 discloses a method of towing two spaced apart sensors behind a waterborne vessel to obtain marine magnetic data, but does not teach or suggest any correction for ship bias. D2 discloses removing noise from fixed magnetic sensors used for detection of submarines, in which magnetic gradients are subtracted, but does not teach or suggest how towed magnetic sensors could be corrected for ship bias. Hence the claims are novel and inventive over the prior art.

INDUSTRIAL APPLICABILITY (IA)

The subject matter of the claims is applicable to marine exploration based on magnetic gradient data.